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Oct. 23. "Women as horticulturists," Miss E. L. Lee.

Oct. 30. "The plant life of the south," Dr. F. W. Pennell.

Free public lectures on Sunday afternoons, at four o'clock, are as follows:

Sept. 5. "Ceylon, the Pearl of the Orient," Dr. H. A. Gleason.

Sept. 12 "The vegetation of Alaska and its significance," Dr. Arthur Hollick.

Sept. 19. "Planting to attract our native birds," Dr. G. C. Fisher.

Sept. 26. "How plants get their food," Mr. Norman Taylor.

(Exhibition of Dahlias, Sept. 25 and 26)

Oct. 3. "Plant motives in Renaissance decorative art," Dr. W. A. Murrill.

Oct. 10. "Recent plant immigrants and new American plant industries," Dr. David Fairchild.

Oct. 17. "Poisonous plants in fields and woodlands," Dr. Wm. Mansfield.

Oct. 24. "House plants: their care and culture," Mr. H. Findlay.

Oct. 31. "The dehydration of foods," Dr. R. H. McKee.

Free public lectures in the central display greenhouse, Conservatory Range 2, on Saturday afternoons, at three-fifteen o'clock, will be as follows:

Nov. 6. "Palms and their products," Dr. N. L. Britton.

Nov. 13. "Tropical aquatic plants," Mr. G. V. Nash.

Nov. 20. "Tropical beverage plants," Dr. H. A. Gleason.

Nov. 27. "Bananas and their relatives," Dr. W. A. Murrill.

Dec. 4. "Tropical plants yielding starch," Dr. M. A. Howe.

Dec. 11. "Plants yielding rubber," Dr. A. B. Stout.

SCIENTIFIC NOTES AND NEWS

SIR EDWARD THORPE, emeritus professor of chemistry in the Imperial College of Science, London, has been elected president of the British Association for the Advancement of Science for the meeting to be held next year at Edinburgh. Sir Charles Parsons has been elected a trustee in the place of the late Lord Raleigh. It was found impracticable to go to

Colombo in 1922, and an invitation from Hull has been accepted for that year.

DR. LEONARD G. ROWNTREE, professor of medicine in the medical school of the University of Minnesota, and Dr. Reginald Fitz, associate in medicine of the Massachusetts General Hospital, have joined the staff of the Mayo Foundation for Medical Education and Research, at Rochester, Minn. Drs. Rowntree and Fitz will be associated in the further development of research in internal medicine.

MR. W. D. COLLINS, of the Bureau of Chemistry, U. S. Department of Agriculture, has been appointed chief of the quality-of-water division of the U. S. Geological Survey.

MR. EARL P. CLARK, assistant in chemistry at the Rockefeller Institute for Medical Research, New York City, has joined the chemical staff of the Bureau of Standards.

DR. H. S. HELE-SHAW, Harrison professor of engineering in University College, Liverpool, 1886-1903, and in the university from 1903-04, has been elected emeritus professor of engineering in the University of Liverpool.

THE following degrees have been conferred by the University of Dublin: doctor of science, Sir William H. Bragg; doctor of medicine, Sir Archibald E. Garrod; doctor of law, Sir Donald Macalister.

MR. H. S. BAILEY, formerly of the Bureau of Chemistry, U. S. Department of Agriculture, resigned his position with E. I. du Pont de Nemours and Company on July 1, to take charge of research for the Southern Cotton Oil Company at Savannah, Georgia.

B. S. BUTLER has resigned from the U. S. Geological Survey, and will be associated with L. C. Graton in a study of the geological problems of the Calumet and Hecla mines.

D. H. NEWLAND has resigned as assistant state geologist of New York, and has taken a position with the Beaver Board Companies of Buffalo, New York, as field geologist and mining expert.

MAJOR LAWRENCE MARTIN, of the General Staff, and one of the map experts of the Army, who has been on duty in the Military Intelligence Division, has been ordered to report to

the secretary of state for temporary duty for the purpose of assisting in preparing a report on the proposed western boundary of Armenia. The report is intended to aid President Wilson in considering questions relating to the boundaries of Armenia. Major Martin was formerly associate professor of physiography and geography in the University of Wisconsin. He was chief of the Geographical Branch of Military Intelligence, attached to the American Commission to Negotiate Peace, from November, 1918, to December, 1919. One of his details while at the Peace Conference was that of geographer to General Harbard's Military Mission to Armenia.

W. T. THOM, JR., of the U. S. Geological Survey, who has been doing relief work in Vienna, Austria, for the past six months, has returned to Washington.

DR. M. X. SULLIVAN, biochemist of the U. S. Public Health Service, gave a course of sixteen lectures on "Public Health" at the Converse College Summer School and Red Cross Institute for social workers, Spartanburg, South Carolina.

A LECTURE entitled "News from the stars," under the auspices of the University of California Extension Division by Dr. R. H. Aitken, astronomer at the Lick Observatory, will be delivered before the Fresno County Medical Society at the University Club, open to the public, to begin the program of lectures for the fall by the university extension division of the University of California.

JOSEPH PAXON IDDINGS, formerly geologist of the United States Geological Survey and professor of petrology in the University of Chicago, distinguished for his work on igneous rocks, died on September 8, at the age of sixty-three years.

SAMUEL MILLS TRACY, agronomist of the United States Department of Agriculture, died at Laurel, Miss., on September 5, aged seventy-three years. Dr. Tracy was born at Hartford, Vermont, and graduated from Michigan State Agricultural College in 1868. From 1877 to 1887 he was professor of botany and agriculture at the University of Mis-

souri, and from 1887 to 1897 was director of the Mississippi Agricultural Experiment Station. Since that time he has been attached to the United States Department of Agriculture. He was a fellow of the American Association for the Advancement of Science, in the work of which he took an active part, and a member of the New Orleans Academy of Science, and the Botanical Society of America. Among his works are the "Flora of Missouri," the "Flora of Southern United States" and numerous bulletins issued by the Mississippi Experiment Station and the United States Department of Agriculture.

ELLIS L. MICHAEL, zoologist of the Scripps Institution for Biological Research of the University of California from the foundation of the institution fifteen years ago, died at La Jolla, California on August 30. A correspondent writes: "Mr. Michael did notable work on the Chaetognatha, and in the broader field of quantitative and statistical treatment of problems in marine planktology. So few are the workers in this domain of biology that his loss is specially heavy." Mr. Michael had just passed his thirty-ninth birthday.

EDWARD KINCH died on August 6 at the age of seventy-one years. Professor Kinch was from 1881 to 1915 professor of chemistry at the Royal Agricultural College, Cirencester.

THE death is announced at Cassel, Germany, of Dr. M. Alsberg, the anthropologist, at the age of eighty years.

ABOUT forty members of the British Society of Glass Technology are visiting American glass plants. A joint meeting of the glass division of the American Ceramic Society and the British Society of Glass Technology was held in Pittsburgh on September 1, 2 and 3.

A FEDERATION of the biological clubs affiliated with the Paris Biological Society was recently formed in the laboratory of Professor Brachet in the anatomical laboratory of the University of Paris. The clubs of Brussels, Lille, Lyons, Nancy, Strasbourg, Bucharest and Copenhagen were represented. Professor Bard, of Strasbourg, was elected president and the next meeting is scheduled at Strasbourg in the autumn of 1921.

THE Air Ministry, in an official *Notice to Airmen*, according to the *London Times*, details innovations recently introduced in the dissemination of meteorological statistics and forecasts by wireless telegraphy for the use of aircraft. Reports are issued from the Croydon aerodrome on a 900-meter continuous wave each day, including Sundays, at hourly intervals between 7.35 A.M. (G.M.T.) and 4.35 P.M., the data in each consisting of observations made 35 minutes previously at the following places: Felixstowe, Croydon, Biggin Hill, Lympne, Beachy Head, Dungeness, and Botley Hill (North Downs). In addition to the usual information, the messages now include the direction and speed of the low cloud, the character of the sea-swell and the visibility towards the sea is distinguished from that over the land, the latter important feature being observed at various points along the channel coast. A statement is also added regarding the conditions prevailing on the North Downs as viewed from Biggin Hill, while at 8.25 A.M. the complete results of a pilot-balloon ascent at Croydon or Lympne are appended whenever available. Every statement is suffixed by the latest Meteorological Office estimate of the probable weather during the remaining hours of daylight. Reports of a similar character are also issued on the same wave-length from Le Bourget seven times daily, the observations transmitted in this case being derived from St. Inglevert, Abbeville, Maubeuge, Havre, and Le Bourget.

THE department of hygiene and public health at King's College, London, which offers complete courses of instruction for the various degrees and diplomas in public health, has recently been reorganized under the general supervision of Professor Simpson. Professor Sommerville, lectures on hygiene, sanitary law and administration, sanitation and vital statistics, etc., and Mr. Rhys Charles on the Food and Drugs Acts. Bacteriology and parasitology is taught by Professor Hewlett and Dr. Taylor, and the chemical laboratory work is in charge of Mr. William Partridge. The laboratories are open daily for instruction and research, and arrangements are made

to suit the convenience of those engaged in practise. Weekly demonstrations on sanitary appliances and visits to places of sanitary interest are arranged. A special course on industrial hygiene is given by Dr. Legge (October to February) and courses on school hygiene are given by Dr. Malcolm (October to June).

As the part of the university extension work the Boston Teachers' School of Science will offer this fall courses in botany, geography, geology and zoology. The courses will be given by Professor W. J. V. Osterhout, of Harvard, Professor Elizabeth F. Fisher, of Wellesley; Professor George H. Barton and Professor George H. Parker, of Harvard. The school also announces its autumn course of field lessons in geology as follows: September 11, Baker Bridge; September 18, Andover; September 25, Braintree; October 2, Wayland; October 9, Orient Heights; October 16, Naugus Head; October 23, Roberts; October 30, West Quincy; November 6, Kendal Green.

UNIVERSITY AND EDUCATIONAL NEWS

THE University of Buffalo has received from O. E. Foster a gift of \$400,000 for the erection of a chemistry building. It has also received anonymous gifts of \$250,000 toward endowment and of a library building.

THE late Dr. J. G. Bartholomew has bequeathed to the University of Edinburgh the sum of £500, to be applied towards the foundation of a chair in geography.

RECENT appointments at Harvard University include those of Richard D. Bell, assistant professor of biological chemistry; W. T. Bovie, Ph.D., '14, assistant professor of biophysics and instructor in bacteriology; Stanley Cobb, '10, assistant professor of neuropathology; Calvin G. Page, '90, assistant professor of bacteriology; Marshal Fabian, '00, assistant professor of comparative pathology; Joseph C. Aub, '11, assistant professor of physiology; Robert B. Osgood, '89, instructor in orthopedic surgery, and James B. Ayer, '03,